

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(Hamada or Mabuchi or Kano or Azuma).in. and fuel adj injector and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:19
L2	10	(Hamada or Mabuchi or Kano or Azuma).in. and fuel with inject\$3 and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:19
L3	8	(Hamada or Mabuchi or Kano or Azuma).in. and fuel with (injector or valve) and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:20
L4	1	(fuel with (injector or valve) and "surface roughness" and hardness and (thickness).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:20
L5	1850	123/467-470.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:21
L6	0	5 and coat\$3 and hardness and roughness and thickness and fuel adj injector	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:22
S1	13	US-5843571-\$.D.ID. OR US-5466431-\$.D.ID. OR US-5190824-\$.D.ID. OR US-4783368-\$.D.ID. OR US-4755426-\$.D.ID. OR US-5205188-\$.D.ID. OR US-5077990-\$.D.ID. OR US-4554208-\$.D.ID. OR US-6237441-\$.D.ID. OR US-5249554-\$.D.ID. OR US-5237967-\$.D.ID. OR US-4974498-\$.D.ID. OR US-6715693-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 06:02
S2	13	S1 and(roughness or hardness or carbon)	US-PGPUB; USPAT	OR	OFF	2006/01/30 07:47
S3	1	S1 and(roughness or carbon) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 07:51
S4	1	S1 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:09

S5	28	US-6468642-\$.D.ID. OR US-6205291-\$.D.ID. OR US-6822788-\$.D.ID. OR US-6592519-\$.D.ID. OR US-6572935-\$.D.ID. OR US-6666328-\$.D.ID. OR US-6338881-\$.D.ID. OR US-6626949-\$.D.ID. OR US-6882094-\$.D.ID. OR US-5461648-\$.D.ID. OR US-5299937-\$.D.ID. OR US-6543394-\$.D.ID. OR US-6439845-\$.D.ID. OR US-6666671-\$.D.ID. OR US-6273793-\$.D.ID. OR US-5458754-\$.D.ID. OR US-4988421-\$.D.ID. OR US-6296552-\$.D.ID. OR US-5927897-\$.D.ID. OR US-4980021-\$.D.ID. OR US-6880469-\$.D.ID. OR US-6638569-\$.D.ID. OR US-6572937-\$.D.ID. OR US-6494881-\$.D.ID. OR US-6385987-\$.D.ID. OR US-6358123-\$.D.ID. OR US-6309283-\$.D.ID. OR US-6305416-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:38
S6	0	S5 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:05
S7	34	US-6139964-\$.D.ID. OR US-6016000-\$.D.ID. OR US-5947710-\$.D.ID. OR US-5901021-\$.D.ID. OR US-5881444-\$.D.ID. OR US-5824387-\$.D.ID. OR US-5255783-\$.D.ID. OR US-5187021-\$.D.ID. OR US-4992082-\$.D.ID. OR US-6855791-\$.D.ID. OR US-6820676-\$.D.ID. OR US-6761736-\$.D.ID. OR US-6753635-\$.D.ID. OR US-6733513-\$.D.ID. OR US-6695865-\$.D.ID. OR US-6656329-\$.D.ID. OR US-6557968-\$.D.ID. OR US-6537310-\$.D.ID. OR US-6386468-\$.D.ID. OR US-6379383-\$.D.ID. OR US-6377422-\$.D.ID. OR US-6367705-\$.D.ID. OR US-6289593-\$.D.ID. OR US-6190514-\$.D.ID. OR US-6006415-\$.D.ID. OR US-5992268-\$.D.ID. OR US-5976707-\$.D.ID. OR US-5975686-\$.D.ID. OR US-5968596-\$.D.ID. OR US-5945214-\$.D.ID. OR US-5940975-\$.D.ID. OR US-5799549-\$.D.ID. OR US-5529815-\$.D.ID. OR US-5443032-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:35
S8	0	S7 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:35
S9	27	US-5401543-\$.D.ID. OR US-5332348-\$.D.ID. OR US-5036211-\$.D.ID. OR US-6890700-\$.D.ID. OR US-6878447-\$.D.ID. OR US-6872203-\$.D.ID. OR US-6871700-\$.D.ID. OR US-6865952-\$.D.ID. OR US-6861137-\$.D.ID. OR US-6861098-\$.D.ID. OR US-6855237-\$.D.ID. OR US-6849085-\$.D.ID. OR US-0200401-\$.D.ID. OR US-0200401-\$.D.ID. OR US-2004001-\$.D.ID. OR US-6821189-\$.D.ID. OR US-6818029-\$.D.ID. OR US-6799468-\$.D.ID. OR US-6797326-\$.D.ID. OR US-6780177-\$.D.ID. OR US-6753042-\$.D.ID. OR US-6749033-\$.D.ID. OR US-6739214-\$.D.ID. OR US-6729527-\$.D.ID. OR US-6729350-\$.D.ID. OR US-6701627-\$.D.ID. OR US-6699106-\$.D.ID. OR US-6684759-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:40
S10	0	S9 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:41

S11	22	\$.D.ID. OR US-6645354-\$.D.ID. OR US-6637528-\$.D.ID. OR US-6601662-\$.D.ID. OR US-6592985-\$.D.ID. OR US-6589640-\$.D.ID. OR US-6586069-\$.D.ID. OR US-6585064-\$.D.ID. OR US-6572651-\$.D.ID. OR US-6570172-\$.D.ID. OR US-6562462-\$.D.ID. OR US-6544308-\$.D.ID. OR US-6537429-\$.D.ID. OR US-6471979-\$.D.ID. OR US-6452752-\$.D.ID. OR US-6439986-\$.D.ID. OR US-6401058-\$.D.ID. OR US-6399215-\$.D.ID. OR US-6368676-\$.D.ID. OR US-6340245-\$.D.ID. OR US-6324060-\$.D.ID. OR US-6322431-\$.D.ID. OR US-6316734-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:41
S12	0	S11 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:42
S13	34	"D.ID." OR US-6203651-\$.D.ID. OR US-6197428-\$.D.ID. OR US-6197120-\$.D.ID. OR US-6173913-\$.D.ID. OR US-6160683-\$.D.ID. OR US-6159558-\$.D.ID. OR US-6156439-\$.D.ID. OR US-6145608-\$.D.ID. OR US-6124198-\$.D.ID. OR US-6106919-\$.D.ID. OR US-6099541-\$.D.ID. OR US-6083313-\$.D.ID. OR US-6071597-\$.D.ID. OR US-6059830-\$.D.ID. OR US-6051298-\$.D.ID. OR US-6028393-\$.D.ID. OR US-6023979-\$.D.ID. OR US-6015597-\$.D.ID. OR US-5993938-\$.D.ID. OR US-5967250-\$.D.ID. OR US-5958261-\$.D.ID. OR US-5952102-\$.D.ID. OR US-5910940-\$.D.ID. OR US-5834708-\$.D.ID. OR US-5806557-\$.D.ID. OR US-5793390-\$.D.ID. OR US-5790146-\$.D.ID. OR US-5723207-\$.D.ID. OR US-5707409-\$.D.ID. OR US-5672054-\$.D.ID. OR US-5653300-\$.D.ID. OR US-5630275-\$.D.ID. OR US-5619889-\$.D.ID. OR US-5593719-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:42
S14	1	S13 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:01
S15	22	US-5568391-\$.D.ID. OR US-5547716-\$.D.ID. OR US-5516729-\$.D.ID. OR US-5509841-\$.D.ID. OR US-5479069-\$.D.ID. OR US-5464667-\$.D.ID. OR US-5433977-\$.D.ID. OR US-0380196-\$.D.ID. OR US-5358402-\$.D.ID. OR US-5349265-\$.D.ID. OR US-5334306-\$.D.ID. OR US-5317938-\$.D.ID. OR US-5232568-\$.D.ID. OR US-5190807-\$.D.ID. OR US-5142785-\$.D.ID. OR US-5132587-\$.D.ID. OR US-5087608-\$.D.ID. OR US-5078848-\$.D.ID. OR US-5000541-\$.D.ID. OR US-4980610-\$.D.ID. OR US-4943345-\$.D.ID. OR US-6887585-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:01
S16	0	S15 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:02

S17	21	8-\$.D.ID. OR US-6629906-\$.D.ID. OR US-6883476-\$.D.ID. OR US-2716972-\$.D.ID. OR US-2982733-\$.D.ID. OR US-3790315-\$.D.ID. OR US-3846162-\$.D.ID. OR US-3932228-\$.D.ID. OR US-4031023-\$.D.ID. OR US-4538929-\$.D.ID. OR US-4645610-\$.D.ID. OR US-4712982-\$.D.ID. OR US-4834400-\$.D.ID. OR US-4842755-\$.D.ID. OR US-4960643-\$.D.ID. OR US-5143634-\$.D.ID. OR US-5148780-\$.D.ID. OR US-5202156-\$.D.ID. OR US-5326488-\$.D.ID. OR US-5630953-\$.D.ID. OR US-5719109-\$.D.ID. OR US-5735769-\$.D.ID. OR US-577J817-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:02
S18	0	S17 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:03
S19	30	US-5851962-\$.D.ID. OR US-5937812-\$.D.ID. OR US-5960762-\$.D.ID. OR US-6056443-\$.D.ID. OR US-6059460-\$.D.ID. OR US-6083570-\$.D.ID. OR US-6095690-\$.D.ID. OR US-6142481-\$.D.ID. OR US-6170156-\$.D.ID. OR US-6193906-\$.D.ID. OR US-6322719-\$.D.ID. OR US-6325385-\$.D.ID. OR US-6333298-\$.D.ID. OR US-6523456-\$.D.ID. OR US-6524212-\$.D.ID. OR US-6543394-\$.D.ID. OR US-6553957-\$.D.ID. OR US-6562445-\$.D.ID. OR US-6726993-\$.D.ID. OR US-6739238-\$.D.ID. OR US-6740393-\$.D.ID. OR US-6745742-\$.D.ID. OR US-6806242-\$.D.ID. OR US-6886521-\$.D.ID. OR US-6893720-\$.D.ID. OR US-6329328-\$.D.ID. OR US-6207625-\$.D.ID. OR US-5482602-\$.D.ID. OR US-5127314-\$.D.ID. OR US-6299425-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:03
S20	0	S19 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:04
S21	36	"." OR US-5032243-\$.D.ID. OR US-5295305-\$.D.ID. OR US-5205305-\$.D.ID. OR US-5497550-\$.D.ID. OR US-5669144-\$.D.ID. OR US-6684513-\$.D.ID. OR US-6866894-\$.D.ID. OR US-5040501-\$.D.ID. OR US-5067826-\$.D.ID. OR US-5284394-\$.D.ID. OR US-5714202-\$.D.ID. OR US-6099976-\$.D.ID. OR US-5096352-\$.D.ID. OR US-5288556-\$.D.ID. OR US-5456406-\$.D.ID. OR US-5462772-\$.D.ID. OR US-5616372-\$.D.ID. OR US-5688557-\$.D.ID. OR US-5740941-\$.D.ID. OR US-5786038-\$.D.ID. OR US-5794801-\$.D.ID. OR US-6165616-\$.D.ID. OR US-4367130-\$.D.ID. OR US-4385880-\$.D.ID. OR US-4702808-\$.D.ID. OR US-4859493-\$.D.ID. OR US-4874596-\$.D.ID. OR US-5021628-\$.D.ID. OR US-5552675-\$.D.ID. OR US-5628881-\$.D.ID. OR US-5871805-\$.D.ID. OR US-4755237-\$.D.ID. OR US-5255929-\$.D.ID. OR US-5360227-\$.D.ID. OR US-5866195-\$.D.ID. OR US-6969198-\$.D.ID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:04
S22	0	S21 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08
S23	10	("20040242435" or "20050005892" or "20050084390" or "20050089685" or "20050100701" or "20050064196" or "20050025975" or "20050056241" or "20050082139" or "20050188942").pn.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08

S24	0	S23 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08
S25	120	carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:10
S26	13	S25 and hard with carbon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:10
S27	0	(hamada or mabuchi or kano).inv. and fuel adj injector and carbon and (roughness or thickness)	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:35
S28	36	(hamada or mabuchi or kano).inv. and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:35
S29	8728	123/467;239/533.11,533.20,585.5,591;428/469,408.cols.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:25
S30	1741	S29 and carbon with coat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:26
S31	8	S30 and fuel adj injector	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:29
S32	15	(US-20030084882-\$ or US-20030089343-\$ or US-20040045636-\$ or US-20040129313-\$).did. or (US-6213075-\$ or US-6482476-\$ or US-6145763-\$ or US-6367439-\$ or US-6679231-\$ or US-6752332-\$ or US-6860255-\$ or US-5771873-\$ or US-4992187-\$ or US-6156439-\$ or US-6715693-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/08/11 10:49
S33	4	S32 and additive\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:50
S34	4	S32 and additive\$1 and fuel	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:52
S35	4	S34 and (octane or cetane or antioxidant or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:56
S36	12	S32 and (additive\$1 or octane or cetane or antioxidant or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:59

S37	5351	engine and fuel and additive\$1 and (ester or amine) and (octane or cetane or antioxidant or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S38	422	S37 and fuel adj injector\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S39	6	S38 and (hard or diamond)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:07
S40	6	S38 and (hard or diamond or diamond-like)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19
S41	2587	engine and fuel and additive\$1 and (ester and amine) and (octane or cetane or antioxidant or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S42	249	S41 and fuel adj injector\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19

S43	1	S42 and (hard or diamond or diamond-like)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19
S44	1	"5008732".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 09:55
S45	1	"5008732".pn. and hard adj carbon and carbon with hydrogen adj atoms	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 09:55
S46	1	"5527596".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/19 11:28

10/30/2008 11:22:46 AM

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